INTERFACE DESIGN STANDARD	
IDS-28	
SHEET 1 OF 1	DATE: 03/19/97
DRAWN: JEM	APPROVED: HN

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REV.	DESCRIPTION	DATE	APPR.
A	PER ECN 5358	01/31/00	HN
B	PER ECN 12825	04/04/18	JEM
C	PER ECN 13033	07/23/18	JEM
D	PER ECN 13780	06/11/20	JEM
E	PER ECN 14215	11/26/24	DW

Description: 28 Series

MATERIALS

BODIES

Plug: Brass Per ASTM B16
Receptacle: Beryllium Copper Per ASTM B196

CONTACTS

Male Contact: Brass Per ASTM B16
Female Contact: Beryllium Copper Per ASTM B196

INSULATORS

Virgin Teflon (PTFE) Per ASTM D1710

PLATING

Gold Per MIL-DTL-45204 (Electro Deposited)
Copper Per SAE AMS 2418 (Electro Deposited)
Nickel Per QQ-N-290

CLIP RING

Beryllium Copper Per ASTM B194

FINISH (Ending Letter of Part Number)

A: .000050" Min. Gold Over Nickel

B: .000030" Min. Gold Over Nickel

MATING CHARACTERISTICS

Bodies:	48 oz. (3lbs) Max. Insertion 2 oz. (0.125 lbs.) Min. Withdrawal
Contacts:	14 oz. (0.875 lbs.) Max. Insertion .5 oz. (0.031 lbs.) Min. Withdrawal
Housing Retention:	192 oz. (12 lbs.) Min.

ELECTRICAL

Frequency Range:	DC To 10 GHz
Voltage Rating Straight:	1000 VRMS
Voltage Rating Angled:	800 VRMS
Insulation Resistance:	5000 Megohms Min.
Insertion Loss:	.2 dB Max.
Impedance:	50 Ohms
Contact Resistance:	Center Contact 10 Milliohms
Contact Resistance:	Outer Contact 3 Milliohms
VSWR:	1.35 Max. @ 10 GHz

ENVIRONMENTAL

Operating Temperature:	-55°C To+165°C
Vibration:	MIL-STD-202, Method 204, Test Condition 4
Shock:	MIL-STD-1344, Method 2005, Test Condition E
Durability:	500 Cycles
Salt Spray:	MIL-STD-1344, Method 1001, Condition B

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